

DEVICE FOR LYSING CELLS, SPORES, OR MICROORGANISMS

ABSTRACT OF THE DISCLOSURE

A device for use with an ultrasonic transducer to lyse
5 components of a fluid sample comprises a cartridge having a
lysing chamber, an inlet port in fluid communication with the
lysing chamber, and an outlet port for exit of the sample from
the lysing chamber. The inlet and outlet ports are positioned to
permit flow of the sample through the lysing chamber, and the
10 chamber contains at least one solid phase for capturing the
sample components to be lysed as the sample flows through the
chamber. The lysing chamber is defined by at least one wall
having an external surface for contacting the transducer to
effect the transfer of ultrasonic energy to the chamber.

15